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UTAH OIL AND GAS CONSERVATION COMMISSION

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| COUNTY | SAN JUAN | | | |
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CHUSKA ENERGY COMPANY



CHUSKA ENERGY COMPANY

3315 BLOOMFIFLD HIGHWAY • FARMINGTON, NFW MEXICO 87401 • PHONE (505) 326 5525

6 June, 1991

State of Utah Department of Natural Resources Division of Oil, Gas and Mining 355 West North Temple 3 Triad Building, Suite 350 Salt Lake City, Utah 84'80-1203

Ref:

Application for Permit to Drill Garter 9-1 Well, San Juan County, Utah

Gentlemen

Attached for your examination and approval is the original and two copies of an Application for Permit to Drill the Garter Well No. 9-1 in San Juan County, Utah. This well will be drilled as part of an ongoing exploration and development program.

The location for this well falls outside the guidelines for the State of Utah spacing requirements. However, the topography of the area surrounding the desired location is such as to preclude the well being located in accordance with State requirements and yet remain in a position which will allow the well bore to penetrate geological structures which have been identified by seismic interpretation. We therefore apply for an exception to the General State Spacing requirements on topographic grounds. Chuska Energy controls the acreage surrounding the proposed site, as indicated on the attached land plat.

Please advise if you require additional information concerning this application. Chuska Energy will greatly appreciate your prompt consideration.

Sincerely,

Larry G Sessions
Operations Manager

LGS/cswh
File. C \WP51\GARTER.91\APDCOVER

encl.

JUN 1 0 1991

DIVISION OF OIL GAS & MINING Form_160-3 (November 1983) (formerly 3-1310)

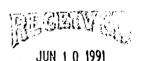
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Form approved. Budget Bureau No. 1004-0136 Expires August 31, 1985

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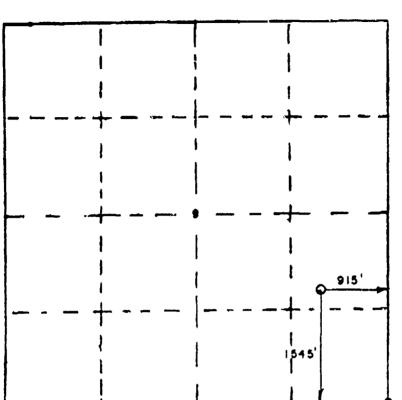
Refer to attached 10-Point Drilling Plan etc.



DIVISION OF OIL CAS & MINING

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WELL LOCATION PLAT



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WEDL LOCATION DESCRIPTION:

CHUSKA ENERGY CO., Garter 9 - 1 1545'FBL & 915'FBL

Section 9, T.43 S., R.26 E., SLM

San Juan County, UT

4851' ground elevation State plane coordinates from seismic control:

X = 2,710,773 Y = 152,413 S80°E 296' from SP 343.5 line 500-47

The above is true and correct to my knowledge and

27 May 1991

Gerald G. Huddlesto

12 78 OF U

CHUSKA ENERGY COMPANY

10 POINT DRILLING PLAN

Garten Well No 9-1 Section 9, Township 435, Range 26E 1545' FS∟, 915' FEL San Juan County, Utah

1. SURFACE FORMATION

Geological name of surface formation Morrison

2. ELEVATION

Surface elevation is 4,851' GR.

3. ESTIMATED FORMATION TOPS

| <u>Depth</u> | <u>Formation</u> | <u>Sub Sea</u> <u>Elevation</u> |
|--------------|------------------|------------------------------------|
| Surface | Morrison | + 4,851' |
| 1,267' | Navajo | + 3,584' |
| 1,947' | Chinle | + 2,904' |
| 3,104' | DeChelly | + 1,747' |
| 3,370' | Organ Rock | + 1,481' |
| 4,058' | Cedar Mesa | + 793' |
| 5,011' | Hermosa | - 160' |
| 5,821' | Upper Ismay | - 970' |
| 5,921' | Lower Ismay | - 1,070' |
| 5,997' | Desert Creek | - 1,146' Primary Objective |
| 6,151' | Akah | - 1,300' |
| 6,301' | Total Depth | - 1,450' |

4. PROPOSED CASING/CEMENTING PROGRAM

| | <u>Depth</u> | <u>Size</u> | <u>Weight</u> | Grade | Coupling |
|-------------|--------------|-------------|---------------|-------|----------|
| Surface | | 8 5/8" | 24 lb | K-55 | STC |
| Production: | | 5 1/2" | 15.5 lb | K-55 | STC |

Surface Cementing:

371 sx (427 ft 3) Class 'G' cement with 2% CaCl, and 1/4 lb/sk Celloflake. Weight = 15.8 ppg, yield = 1.15 ft 3 /sk. Slurry volume calculated at 100% excess over annular volume.

Production Cementing:

First Stage

T.D to 3,500' (stage collar @ \pm 3,500'). Lead with 222 sx Class 'G' cement, 65:35 Pozmix, with 6% gel and 1/4 lb/sk Celloflake. Weight = 12 7 ppg, yield = 1.85 ft³/sk. Tail with 195 sx Class 'G' cement with 2% CaCl₂. Weight = 15.8 ppg, yield = 1.15 ft³/sk. Total of 634 ft³. Bring Class 'G' slurry to 500' above top of Upper Ismay. Cement volames calculated at 30% excess in open hole. WOC 4 hours petween stages.

Second Stage

3,500' to surface Lead with 355 sx Class 'G' cement, 65.35 Pozmix with 6% gel and 1/4 ib/sk Celloflake. Weight = 12.7 ppg, yield = 1.85 ft/sk. Tail with 100 sx Class 'G' cement with 2% Tail with 2% Tail with 100 sx Class 'G' cement with 2% Tail Weight = 15 8 ppg, yield = 1.15 Tail sk. Total of 772 ft³. Cement volumes calculated at 30% excess in open hole.

Note. Exact slurry volumes for the production string will be adjusted according to the caliper log which will be run prior to cementing. Special adjustments may be necessary if significant amounts of salt are drilled.

5. <u>BLOWOUT PREVENTER</u> (See attached schematics)

As abnormal pressure is not anticipated, a 2,000 psi BOP system would be sufficient for the drilling of this well. However, due to availability constraints, a 3,000 psi system will be used, as per the attached Exhibits "A" and "B". This will be a 10" x 900 Series double ram preventer, equipped with a set of pipe and blind rams.

An accumulator system, with a pressure capacity sufficient to operate the rams three complete cycles without rig power, will be required as part of the rig equipment.

6. PROPOSED MUD PROGRAM

Surface to 3,000'

Fresh water, gel, lime and native solids. Weight 8.3 - 8.7 ppg. Gel/lime sweeps as necessary for hole cleaning.

3,000' to T.D.

Low solids, non-dispersed polymer system. Weight 8.6 - 9 5 ppg. Gel/lime sweeps as hole conditions dictate for hole cleaning. Fluid loss to be maintained at 15 - 20 cc. Fluid loss to be further reduced to 15 cc or less prior to coring, logging or DSTs

7. AUXILIARY EQUIPMENT

- A. A kelly cock will be installed during drilling operations, with haddle available on the rig floor.
- B. Floor (stabbing) valves will be available, on the rig floor at all times, with necessary subs to fit all of the drilling assemblies.
- C. Mud will be the circulating fluid. No abnormal formation pressures are expected.

8. WELL EVALUATION

Open hale electric logging program will consist of a minimum program of PLL-MSFL-SP-GR-Cal, FDC-CNL-GR-Lithodensity from T.D. to 4.500'.

Coring and/or drill stem testing will be as per the wellsite geologist's recommendations, based on shows. A mud logging unit will be utilized during drilling operations from at least 500' above the Upper Ismay.

9. ABNORMAL PRESSURES/GAS

Abnormal pressures are not anticipated. Monitoring of gas and hydrocarbon shows will be by wellsite mud logging unit. H₂S gas is not anticipated, however regular checks will be made while drilling the well.

10. TIMING

The drilling and evaluation of this well is estimated to be 19 days. Anticipated spud date is 1-15-92.

DETAILED DRILLING PROGRAM

DATE: 6 June, 1991

WELL NAME: Garter WELL NO.: 9-1

LOCATION: Section 9, Township 43S, Rarge 26E

1545' FSL, 915' FEL San Juan County, Utah

ELEVATION: 4,851' GR

TOTAL DEPTH 6,301' KB

PROJECTED HORIZON: Primary target is Desert Creek at 5,997'.

DRILLING, CASING AND CEMENTING PROGRAM

- Move in and rig up rotary tols. Notify BLM of time of spud and intent to run surface casing.
- 2. Drill mouse hole and rat hole Mix mud prior to spudding well.
- 3. Drill 12 1/4" hole to \pm 500'. Use fresh water gel/lime spud mud for drilling surface hole. Well bore inclination is not to exceed 1° at 500'. Deviation surveys will be run at least at 250' and at casing point
- 4. Run 8 5/8", 24 lb/ft, K-55, STC casing to T.D. Cement with 371 sx (427 ft³) of Class 'G' cement with 2% CaCl₂ and 1/4 lb/sk Celloflake (sufficient slurry volume to circulate cement to surface).
- W.O.C. a minimum of 4 hours prior to nippling up BOP stack and related equipment. See BOP schematics for details.
- 6. Ensure that plug has been down at least 8 hours prior to commencing pressure testing procedures. Pressure test BOP to 2,000 psig for 30 minutes. Pressure test manifold and all related equipment to 2,000 psig Pressure test casing to 1,500 psig for 30 min.
- 7. Drill out surface casing with 7 7/8" bit. Drill 7 7/8" hole to T.D. Deviation surveys are to be taken every 500' or on a bit trip, whichever occurs first. Maximum allowable deviation will be 5° at T.D., with the maximum allowable rate of change to be 1°/100'.
- 8. Run open hole logs and evaluate. Coring and/or drill stem testing will be as per wellsite geologist's recommendation.

- 9. If the well is determined to be productive, run 5 1/2", 15.5 1b/ft, K-55, STC casing to T.D. Set stage cementing collar at ± 3,500'. In addition to placing centralizers over potential production zones, they will also be run to cover the aquifer sands of the Navajo and DeChelly formations, as per BLM stipulations. Cement production casing in two stages as per cementing program in 10-point Drilling Plan.
- Nipple down BOPE. Set 5 1/2" casing slips and cut off casing. Install well head. Release drilling rig and move rig off location.
- 11. If well is non-productive it will be plugged and abandoned as per State, BLM and Navajo Tribal stipulations.

Garter Well No. 9-1 Section 9, Township 43S, Range 26E 1545' FSL, 915' FEL San Juan County, Utah

GENERAL COMPLETION PROCEDURE

If the well is determined to be productive, move in completion rig. Perforate, acidize, and test each productive porosity zone. Completion work will commence after Sundry Notice approval is received. Detailed procedures will follow.

PLUGGING A'ID ABANDONMENT

If the well is determined not to be productive, the well bore will be plugged as per BLM, State and Navajo Tribal requirements.

Garter Well No. 9-1 Section 9, Township 43S, Range 26E 1545' FSL, 915' FEL San Juan County, Utah

SURFACE USE PLAN

EXISTING ROADS

Shown on the attached topographic map are the existing roads in the immediate area. Outlined is the route to be followed from Highway 41 (Colorado)/262 (Utah). Existing roads will be maintained, as necessary, while operations are in progress.

2. PLANNED ACCESS ROAD

The access road will be as shown on the attached topographic map. The road will be flat bladed, constructed 14' in width and will be maintained as necessary to prevent excessive damage to the existing terrain. The road will be upgraded if commercial production is established. No new road will need to be constructed to the location pad - only upgrading of existing tracks will be required Access will be partially shared with the Copperhead 15-E location

3. LOCATION OF EXISTING WELLS & TANK BATTERIES

There are no other producing wells or facilities in the immediate area.

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

No production facilities are presently in place. Should the well prove to be productive, facilities (tank battery etc) will be sited on the drilling location pad.

5. LOCATION & TYPE OF WATER SUPPLY

Water will be acquired from the San Juan River or McElmo Creek and will be hauled using Chuska Energy Company water trucks, under State of Utah Division of Water Rights Permit Numbers 09-1724. (T64796) or 09-1723 (T64795).

6. SOURCE OF CONSTRUCTION MATERIALS

The need for additional construction materials is not anticipated. In the event that additional materials are required, they will be acquired either from private sources or with the approval of the Navajo Nation.

7. METHODS OF HANDLING WASTE MATERIAL

Trash will be contained on location in an enclosed bin. It will be hauled to an approved disposal site or burned on location if a burning permit is granted. The reserve pit will be lined as required, with an approved 7 mil liner, for containing drilling fluids. The pit will also be fenced. All drilling fluids, cuttings and chemical waste will be stored in the reserve pit. Liquid hydrocarbons will be stored in temporary storage tanks and hauled from location to approved sales facilities. The reserve pit will be emptied, back filled and restored to natural terrain status upon completion of drilling operations.

8 ANCILLARY FACILITIES

Chemical portable toilet facilities will be provided on location during drilling and completion operations. No camps or air strips are planned for this well.

9. WELL SITE LAYOUT

Attached is a surveyor's staking plat, cut and fill diagram and a schematic of the proposed rig layout

10 PLANS FOR RESTORATION OF THE SURFACE

The location is laid out on an east/west trend and will require up to 7' of cut in the reserve pit (1' of cut in the south eastern corner of the location pad) and up to 5' of fill in the north western corner of the location pad. Top soil removed from the pad will be stored at the well site. A reserve pit will be built on terrain containing sparse native vegetation. After drilling operations are complete, drilling fluid in the reserve pit will be allowed to evaporate. All remaining fluid in the pit will be disposed of into an approved disposal site. The reserve pit will remain fenced during the evaporation and disposal process. The pit will then be covered and the topsoil will be returned to the disturbed area. The terrain will be returned as near to its original condition as possible. Following operations, rehabilitation seeding will be in accordance with APD/BLM/BIA stipulations. There are no residents in the immediate area of the site.

11. OPERATORS REPRESENTATIVE

CHUSKA ENERGY COMPANY 3315 BLOOMFIELD HIGHWAY FARMINGTON, NEW MEXICO 87401 LARRY G. SESSIONS

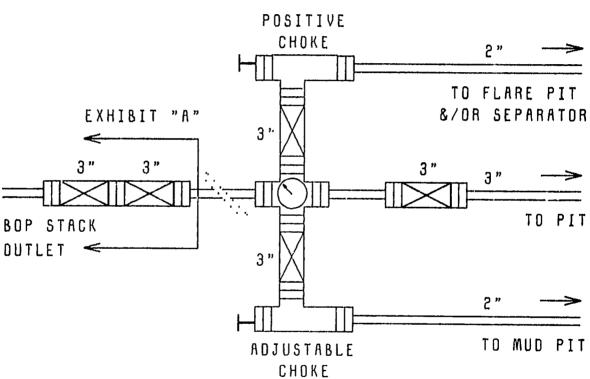
12. CERTIFICATION

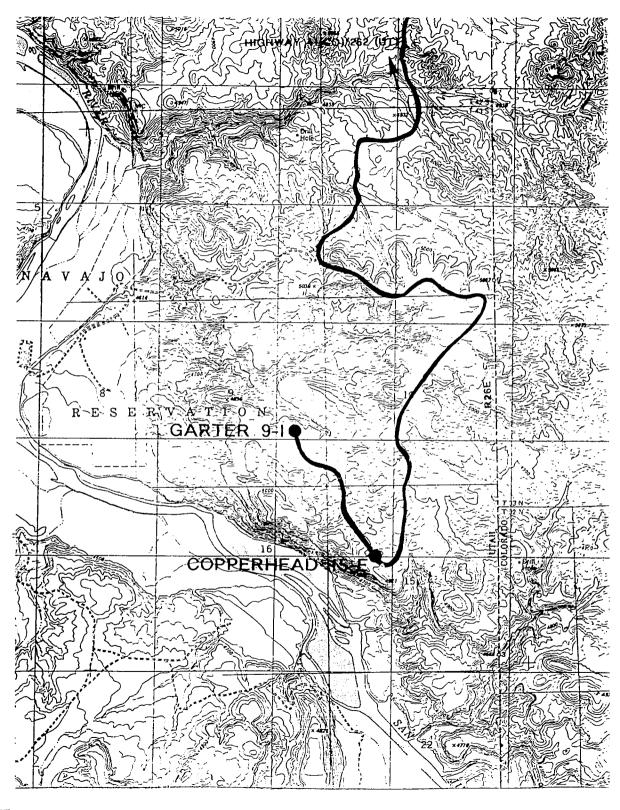
I hereby certify that either I, or persons under my direct supervision have inspected the proposed drill site and access route: that I am familiar with the conditions which presently exist: that the statements made in this plan are, to the best of my knowledge, true and correct and that the work planned will be performed by Chuska Energy, or its sub-contractors, in conformity with the terms and conditions under which it is approved.

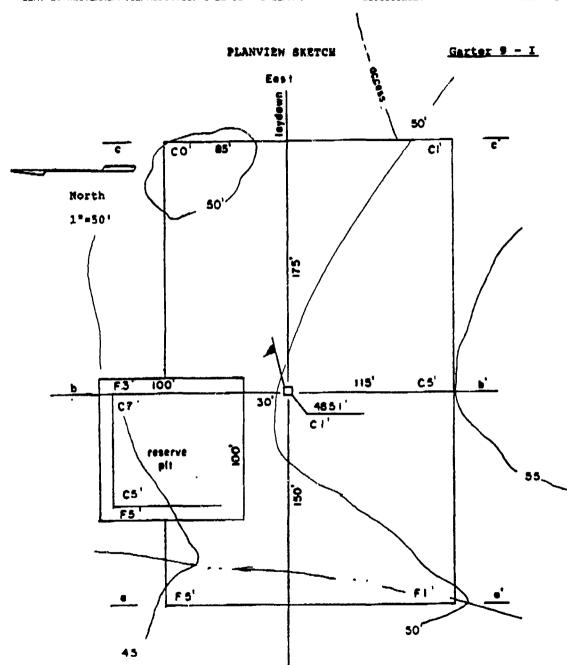
LARRY G. SESSIONS Operations Manager

EXHIBIT "A" BLOWOUT PREVENTER ROTATING HEAD FILLUP LINE MUD TO PIT PIPE RAMS BLIND RAMS EXHIBIT 3" 2" 2" DRILLING SPOOL KILL T OCHECK CHOKE LINE VALVE MANIFOLI 2 " CASING HEAD

EXHIBIT "B" CHOKE MANIFOLD







CROSS SECTION

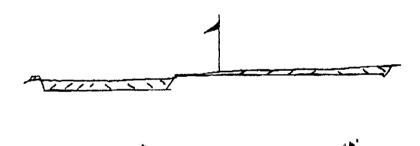
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Garter 9 - I

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1"=50' vert. & horz.





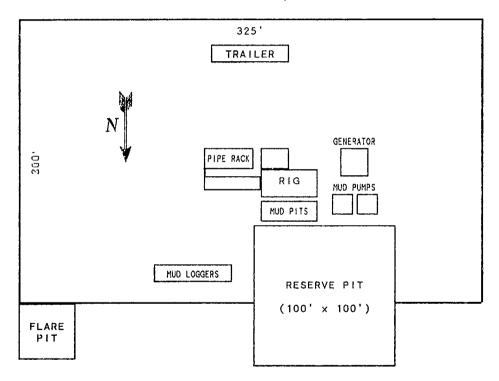


GARTER 9-1

1545' FSL, 915' FEL

SECTION 9, TOWNSHIP 43S, RANGE 26E

SAN JUAN COUNTY, UTAH



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ACREAGE PUSITION: 1987 OPERATING AGREEMENT

TOWNSHIP 43S, RANGE 26E

SAN JUAN COUNTY, UTAH

© CHUSKA ACREAGE

STATE ACTIONS

Mail to: RDCC Coordinator 116 State Capitol Salt Lake City, Utah 84114

| 1. | ADMINISTERING STATE AGENCY OIL, GAS AND MINING (assigned by State Clearinghouse) 355 West North Temple 3 Triad Center, Suite 350 |
|-----|--|
| | Salt Lake City, Utah 84180-1203 3. APPROXIMATE DATE PROJECT WILL START: January 15, 1992 |
| 4. | AREAWIDE CLEARING HOUSE(s) RECEIVING STATE ACTIONS: (to be sent out by agency in block 1) Southeastern Utah Association of Governments |
| 5. | TYPE OF ACTION: //Lease /X/Permit //License //Land Acquisition //Land Sale //Land Exchange //Other |
| 6. | TITLE OF PROPOSED ACTION: Application for Permit to Drill |
| 7. | DESCRIPTION: Chuska Energy Company proposes to drill a wildcat well, the Garter 9-1 well on Navajo Tribal lease number NOG 8702-1116 in San Juan County, Utah. This action is being presented to RDCC for consideration of resource issues affecting state interests. The U.S Bureau of Land Management or the Bureau of Indian Affairs is the primary administrative agency in this case and must issue approval to drill before operations can commence. |
| 8. | LAND AFFECTED (site location map required) (indicate county) NE/4, SE/4, Section 9, Township 43 South, Range 26 East, San Juan County, Utah |
| 9. | HAS THE LOCAL GOVERNMENT(s) BEEN CONTACTED? Unknown |
| 10. | POSSIBLE SIGNIFICANT IMPACTS LIKELY TO OCCUR: No significant impacts are likely to occur |
| 11. | NAME AND PHONE NUMBER OF DISTRICT REPRESENTATIVE FROM YOUR AGENCY NEAR PROJECT SITE, IF APPLICABLE: |
| 12. | FOR FURTHER INFORMATION, CONTACT: 13. SIGNATURE AND TITLE OF AUTHORIZED OFFICIAL |
| | PHONE: 538-5340 DATE: 6-17-91 Petroleum Engineer |

WOI186

CONFIDENTIAL Chura Enugy Co N- 9090 DATE 1P Or.T WELL NAME HOTIL 9-I т 435 R NIDE COUNTY SEC HESE CEUIE-FEO API NUMBER CHECK OFF: NEAREST ОИОВ PLAT WELL FIELD POTASH OR LEASE SLBM OIL SHALE PROCESSING COMMENTS: ROLC 6 1791 Partien ugusted ADDROVAL LETTER: R615-3-2 R615-2-7 SPACING R615-3-3 STIPULATIONS:



Governor
Dee C Hansen
Executive Director
Dianne R Nielson Ph D
Dynnon Niertetar

555 West North Temple
3 Triad Conter Suite 350
Sall Lake City Utah \$4180 1203

July 11, 1991

Chuska Energy Company 3315 Bloomfield Highway Farmington, New Mexico 87401

Gentlemen.

Re: Garter 9-I Well, 1545 feet from the South line, 945 feet from the East line, NE SE. Section 9, Township 43 South, Range 26 East, San Juan County, Utah

Approval to drill the referenced well is hereby granted in accordance with Utah Admin. R.6I5-3-3.

In addition, the following actions are necessary to fully comply with this approval:

- 1 Spudding notification within 24 hours after drilling operations commence
- Submittal of Entity Action Form 6, within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
- 3. Submittal of the Report of Water Encountered During Drilling, Form 7.
- Prompt notification in the event it is necessary to plug and abandon the well. Notify R. J. Firth, Associate Director, (Office) (80l) 538-5340, (Home) 571-6068, or J. L. Thompson, Lead Inspector, (Home) 298-9318.
- Compliance with the requirements of Utah Admin. R 6l5-3-20, Gas Flaring or Venting.

Page 2 Chuska Energy Company Garter 9-I July 11, 1991

- 6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of Drinking Water/Sanitation, telephone (801) 538-6159.
- 7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-037-31632.

Sincerely,

Associate Director, Oil & Gas

tas
Enclosures
cc. Bureau of Land Management
Bureau of Indian Affairs
J. L Thompson
we14/1-2

| PERATOR | CHUSKA | ENERGY | COMPANY | |
|---------|--------|--------|---------|--|
| | | | | |

OPERATOR ACCT. NO. H 9290

| ADDRESS | | | |
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| KELL 1 C | OMMENTS: | · | | | | ' | | · | ! | · | |
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| A | 99999 | 11569 | 43-037-31505 | LIGHTING ROCK 2L-3 | NWSW | 2 | 42S | 25E | SAN JUAN | | 10-19-93 |
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| A | 99999 | 11570 | 43-037-31721 | HILLSIDE 6C-1 | nwne | 6 | 428 | 25E | SAN JUAN | | 10-19-93 |
| WELL 3 C | OTHENTS. | | -! | | | | · | • | | · | |
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| | | | ·,· | f. m. | | , | , —— | | , | , | · |
| À | 99999 | 11571 | 43-037-31632 | GARTER 9-1 | NESE | 9 | 438 | 26E | SAN JUAN | Ì | 10-19-93 |
| WELL 4 C | OMMENTS: | ·!· | | · · · · · · · · · · · · · · · · · · · | | <u>!</u> | · | ! | 1 | | |
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| WELL 5 C | CHRIENTS. | 1 | -l | | | <u>'</u> | <u></u> | ! | <u> </u> | J | ! |
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| | | | | | | | | | | J. | |
| | | | s on back of form) v for new well (sin | ole vall only) | | | | | L. CORDOV | A (DOGM) | |

A - Establish new entity for new well (single well only)

O - Add new well to existing entity (group or unit well)

C - Re-assign well from one existing entity to another existing entity

D - Re-assign well from one existing entity to a new entity

E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

Phone No (

10-19-93

ADMIN. ANALYST

Signature

Title

(3/89)

FEBRUARY 8, 1994

TO: WELL FILE

FROM: K. M. HEBERTSON

RE: Status, Garter 9-1 43-037-31632 9-43S-26E

Per telephone conversation with the operator concerning the status of this well, it was determined that the well will not be drilled and the operator has acknowledged that the APD has expired. The operator has been informed that the APD will need to be refiled in order to drill this well at a future date.

As of the above date the APD has been rescinded and the file sent to the LA archives.

KMH

STATE OF UTAH DIVISION OF OIL, GAS AND MINING OIL AND GAS INSPECTION RECORD

LEASE: WELL NAME: GARTER 9-I

WELL NO: API: 4303731632

TWP: \$430 RANGE: E260 QTR/QTR: NESE SECTION: 09

FIELD: LOCATION: 154590915E

OPERATOR: CHUSKA ENERGY COMPANY

CONTRACTOR:

DRILLING / COMPLETION / WORKOVER

BOPE WELL SIGN HOUSEKEEPING POLL. CONTROL SURFACE USE HOUSEKEEPING CIGA Y SAFETY PITS

OPERATIONS OTHER

SHUT-IN / TA:

WELL SIGN EQUIPMENT SAFETY HOUSEKEEPING

SHUT-IN TA OTHER

ABANDONED:

HOUSEKEEPING REHAB OTHER MARKER

PRODUCTION:

HOUSEKEEPING WELL SIGN EQUIPMENT FACILITIES DISPOSAL

METERING POLL. CONTROL PITS

SAFETY DTHER SECURITY

GAS DISPOSITION:

VENTED/FLARED SOLD LEASE USE

LEGEND: Y - YES OR SATISFACTORY

N - NO OR UNSATISFACTORY

A - NOT APPLICABLE

FACILITIES INSPECTED:

REMARKS:

NO GROUND DISTURBED

ACTION:

INSPECTOR: GLENN GOODWIN DATE: 93/05/05